



State of Maine
Department of Administrative & Financial Services
Office of Information Technology

Change Management Policy and Procedures

Table of Contents

Table of Contents.....	2
1.0 Document Purpose:.....	3
2.0 Applicable Laws/Guidance:.....	3
3.0 Scope:	3
4.0 Policy Conflict:	3
5.0 Roles and Responsibilities:	3
6.0 Management Commitment:	6
7.0 Coordination Among Agency Entities:.....	6
8.0 Compliance:	7
9.0 Procedures:	7
10.0 Document History and Distribution:.....	13
11.0 Document Review:	13
12.0 Records Management:	13
13.0 Public Records Exceptions:	13
14.0 Definitions:	14

Appendix A: Standard Change Classification Template

Appendix B: Standard Change Classification Process and Checklist

Appendix C: Security Impact Analysis

Appendix D: Normal Change RFCs: Required Information in Footprints

1.0 Document Purpose:

The purpose of this document is to establish the Maine Office of Information Technology's (OIT) Change Management (ChM) policy and procedures. This policy ensures that any changes to the OIT operating environment are managed through a process that reflects best practices for the implementation of ChM within the OIT environment in a manner that safeguards the confidentiality, integrity and availability of OIT's information systems.

2.0 Applicable Laws/Guidance:

This policy addresses industry standards and best practices as defined by the National Institute of Standards and Technology (NIST) Special Publication 800-53 (configuration management family of controls), Federal Information Processing Standards (FIPS) and Special Publications (SP), which stress the importance of ensuring that information systems document and assess the potential impact that proposed system changes have on the operational processes and security posture of the overall system.

3.0 Scope:

This policy applies to all State of Maine employees and contractors (collectively referred to as personnel in this document) with access to:

- 3.1 Executive Branch Agency information assets, irrespective of location; and
- 3.2 Information assets from other State government branches that use the State network.

4.0 Policy Conflict:

If this policy conflicts with any law or union contract in effect, the terms of the existing law or contract prevail.

5.0 Roles and Responsibilities:

5.1 The Chief Information Officer is responsible for:

- 5.1.1 Ultimately approving OIT's ChM policies and procedures.
- 5.1.2 Appointing two members of OIT senior management with expertise in change management to serve as CAB Co-Chairs.

5.2 The Division Directors are responsible for:

- 5.2.1 Appointing two individuals, one member and one alternate, from each division with expertise in their respective technology areas to serve on the Change Advisory Board (CAB).

5.3 The CAB Co-Chairs are responsible for:

- 5.3.1 Ensuring the CAB adheres to ChM procedures and is robustly staffed with sufficient IT and stakeholder representatives;
- 5.3.2 Determining the schedule for CAB members to serve as CAB Facilitators on a rotating basis;
- 5.3.3 Approving Standard Change Classification Template requests for use in the Standard Change Catalog in Footprints;
- 5.3.4 Reviewing the Standard Change Catalog in Footprints on an annual basis, or earlier as required, to ensure they remain current and valid;
- 5.3.5 Selecting E-CAB members to serve on an ad hoc basis on the E-CAB, as the nature of the emergency requires;
- 5.3.6 Responding to emergency RFCs (E-RFCs) by standing up the E-CAB to conduct an accelerated ChM process; and
- 5.3.7 Providing conflict resolution as required at CAB meetings and, in the event the CAB is unable to reach a decision on an RFC, escalating the issue to the CIO; and
- 5.3.8 Appointing a designee to act on their behalf, as necessary, with any further designation requiring approval of the CIO.¹

5.4 The CAB members are responsible for:

- 5.4.1 Authorizing all changes throughout the development and operational lifecycle of products and systems after ensuring the changes are held to approved criteria before implementation;
- 5.4.2 Ensuring that changes are processed in an orderly and consistent manner;

¹ The CAB Co-Chairs are responsible for the actions taken by a designee on their behalf within the scope of this policy.

Change Management Policy and Procedures

- 5.4.3 Providing cross-functional visibility to RFCs that leverages the collective understanding of the impact across the organization;
- 5.4.4 Overseeing how proposed changes could affect the functionality and secure state of the information system based upon the CI's assessment; and
- 5.4.5 Providing support for the Major Incident Procedure plan², when applicable, as directed by the CAB Co-Chairs, if the back-out plan fails.

5.5 The CAB Facilitator is responsible for:

- 5.5.1 Leading the CAB meetings on a predetermined rotating basis, as determined by the CAB Co-Chairs;
- 5.5.2 Preparing the CAB meeting agenda for distribution to CAB members, including all Open RFCs that are complete and have met the CAB submission deadline;
- 5.5.3 Prioritizing open RFCs on the agenda for the CAB meeting based on the security impact level identified from the Security Impact Analysis³ (Appendix C);
- 5.5.4 Serving as a ChM gatekeeper by reviewing RFCs for completeness, appropriate approvals, and compliance to ChM procedure; and
- 5.5.5 Ensuring that the Standard Change dashboard in Footprints is updated weekly and reviewed by CAB members at before the weekly CAB meeting.

5.6 The CAB Emergency Committee (E-CAB) members are responsible for:

- 5.6.1 Serving on an ad hoc basis at the request of the CAB Co-Chairs in response to emergency RFCs (E-RFCs);
- 5.6.2 Providing subject matter expertise to the CAB Co-Chairs as required to assist with performing the Security Impact Analysis (SIA) of Emergency RFCs (Appendix C); and
- 5.6.3 Assisting with the Post Implementation Review of any authorized Emergency RFCs.

² <https://www.maine.gov/oit/sites/maine.gov/oit/files/inline-files/major-incident-procedure.pdf>

³ Security Impact Analysis satisfies the NIST configuration management family of controls (CM-4).

5.7 The Change Requestors (CR) are responsible for:

5.7.1 Owning the RFC from creation to closure, which includes:

5.7.1.1 Generating and submitting the RFC to start the process;

5.7.1.2 Providing all of the details that must be included in the RFC (see Appendix D); and

5.7.1.3 If necessary, assigning the RFC to a Change Owner (CO) in Footprints who is better equipped to manage the requirements of the RFC and takes over responsibility for the RFC from implementation to validation post-CAB.

5.7.2 Attending CAB as necessary to assist the CAB with deliberation on the RFC; and

5.7.3 Shepherding the authorized RFC through implementation and validation post-CAB.

5.8 Change Owners (CO) are responsible for:

5.8.1 Once assigned by a CR in Footprints, assuming all the CR's responsibilities with respect to owning the RFC from creation to closure, including:

5.8.1.1 Completing all the required information for the RFC in Footprints necessary to meet the CAB submission deadline (see Appendix D);

5.8.1.2 Attending CAB as necessary to assist the CAB with deliberation on RFC; and

5.8.1.3 Shepherding the authorized RFC through implementation and validation post-CAB.

6.0 Management Commitment:

The State of Maine is committed to following this policy and the procedures that support it.

7.0 Coordination Among Agency Entities:

The State of Maine recognizes the critical need for contingency planning that meet our unique requirements and relate directly to our mission, size, structure, and functions. We further recognize that effective change management meets and surpasses the service expectation and business needs of OIT's customers and

Change Management Policy and Procedures

partner agencies and relies on a collaborative partnership between State Agencies and OIT.

8.0 Compliance:

For State of Maine employees, failure to comply with the procedures identified in this plan may result in progressive discipline up to and including dismissal. For non-State of Maine employees and contractors, failure to comply may result in removal of the individual's ability to access and use State of Maine data and systems. Employers of non-State of Maine employees will be notified of any violations.

9.0 Procedures:

The following change management procedures apply to all changes to the IT infrastructure and production environment, excluding exempt changes, to ensure the appropriate steps occur prior to the implementation of change request.

9.1 Initiate the RFC (Pre-CAB):

9.1.1 Access and record keeping requirements (CM-5):

- 9.1.1.1 All documentation associated with ChM is maintained in the Footprints ticketing system.
- 9.1.1.2 Unless the CR assigns the request to a different "assigned to" individual (see Change Owner), the CR must provide all of the required documentation within Footprints for an RFC to be considered complete (see Appendix D for required information for the RFC in Footprints); and
- 9.1.1.3 The CR may only initiate RFCs on those components of the information system for which they are qualified and authorized to access for purposes of initiating such changes, including upgrades and modifications.

Change Management Policy and Procedures

9.1.2 Types of RFCs

9.1.2.1 There are four types of RFCs (described in Table 1):

Table 1 Types of RFCs

CHANGE TYPE	DESCRIPTION
Standard Change	A Standard Change is created from preapproved Standard change templates that have satisfied specific criteria (see Appendix A) and been added to the Standard Change Template Catalog in Footprints: the change is repeatable, frequently implemented, is considered low risk and low impact according to the SIA, and has a proven history of success (completed the Normal change lifecycle process at least 3-5 times with no issues). Standard changes that are approved by Division Directors and CAB Co-Chairs are added to the catalog and considered pre-authorized, following a shorter ChM lifecycle outside of the CAB approval process (subject to dual authorization). CRs can request new Standard change templates or use an existing template from the catalog to create a new Standard change request.
Normal Change	A Normal Change is one that meets the defined lead time for testing and validation and is assigned a SIA level of no, low, medium, or high. A Normal change is an RFC that is not a Standard, Expedited or Emergency change, and is subject to the full ChM review process, including review and authorization by the CAB.
Expedited Change	An Expedited Change does not meet the lead time requirement for a Normal change, but is not an Emergency Change. Service is at risk, although service might not be down, and the RFC needs to be authorized because of a client request that has been validated by SME/ technical expert or a Director, who has determined that the change needs to go in without waiting for the recommended lead-time. The same 'Normal' Change request information is provided in Footprints to implement the change, including the reason for expediting the RFC (SIA, back-out plans, scheduled time and downtime required), but lead times are much shorter. Authorization by a CAB Co-Chair is required and Expedited Changes are subject to retroactive review by CAB.
Emergency Change	Emergency Change is one that must be implemented as soon as possible to correct, or prevent, a high priority incident, or that must be introduced as soon as possible due to likely negative service impacts or situations where the impact to a service is imminent if action is not taken. These changes do not follow the complete lifecycle of a Normal change due to the speed with which they must be implemented and authorized. All emergency changes are authorized by E-CAB and documented and entered into Footprints prior to implementation, or as soon as possible after the change has been implemented depending on the nature of the emergency. Emergency changes are subject to a Post Implementation Review (PIR) process by CAB.

Change Management Policy and Procedures

9.1.3 Standard RFCs:

- 9.1.3.1.1 CRs can either: choose from an existing Standard Change template in the Footprints catalog; or propose a new template for a Standard Change (see process described in Appendix B).
- 9.1.3.1.2 To create a new Standard Change RFC from an existing template, select the appropriate match from the list of approved Standard Changes listed in the Standard Change Catalog in Footprints.
- 9.1.3.1.3 Once the type of Standard Change is selected, the CR's Division Director, or Director's Designee, must sign off on the designation of the RFC as a Standard Change in Footprints to provide verification that the RFC is a match and properly categorized Standard Change.
- 9.1.3.1.4 Once a Standard Change RFC has been selected within Footprints, and signed off on by the Division Director, it is considered pre-authorized and will be automatically included on a Standard Change Dashboard for CAB members to view on a rolling basis.
- 9.1.3.1.5 If an objection to the Standard Change is raised with the CAB Facilitator and/or CAB Co-Chairs, the Standard Change will be removed from the preauthorized list and added to the CAB agenda for discussion and approval at CAB.
- 9.1.3.1.6 If no objection is raised, the Standard Change is reviewed to be correct and authorized by the CAB Facilitator in advance of the CAB meeting.
- 9.1.3.1.7 The CAB Facilitator authorizes Standard Changes on a biweekly basis.
- 9.1.3.1.8 All Standard Changes are tracked in Footprints and must follow implementation and validation procedures identified below (section 9.4).

9.1.4 Normal Change RFCs:

- 9.1.4.1 Unless the RFC is assigned to another assigned to individual (see Change Owner), the CR is the owner of the RFC from creation to closure.

Change Management Policy and Procedures

- 9.1.4.2 The CR inputs all of the required Normal Change Request information in Footprints (for Required Information, see Appendix D). The CR enters the business needs, goals and objectives of the change and ensures they are accurate, and provides all supporting documentation for the change (i.e. install, test and back-out plans).
- 9.1.4.3 The CR completes the SIA and consults with the Information Team for those RFCs with an impact level of moderate or high. In some cases, the CR will still need to discuss an RFC even though it has an impact level of low. Please send an email to the IT Security Team group (security.infrastructure@maine.gov).
- 9.1.4.4 The CR provides CAB representation when necessary.
- 9.1.4.5 CAB approval is required before implementation.
- 9.1.5 Expedited Change RFCs:
 - 9.1.5.1 The CR follows same process and approval flow as a Normal Change RFC, but lead times are shorter. Expedited Change RFCs must demonstrate that service is at risk, although service might not be down, and the RFC needs to be authorized because of a client request that has been validated by SME/ technical expert or a Director, who has determined that that the change needs to go in without waiting for the recommended lead-time.
 - 9.1.5.2 The same Normal Change request information is provided in Footprints to implement the change, including the reason for expediting the RFC (SIA, back-out plans, scheduled time and downtime required).
 - 9.1.5.3 It is the responsibility of the CR or CO to shepherd the Expedited change through the approval process.
 - 9.1.5.4 All Expedited RFCs must be preauthorized by the CAB Co-Chairs. Retroactive CAB approval is required.
- 9.1.6 Emergency Change RFCs(E-RFCs):
 - 9.1.6.1 E-RFCs do not follow the complete lifecycle of a Normal change due to the speed with which they must be implemented. E-RFCs must meet the criteria that they are necessary to correct, or prevent a high priority incident, or likely negative service impacts/situations where the impact to a service is imminent if action is not taken.

Change Management Policy and Procedures

9.1.6.2 All E-RFCs are authorized by E-CAB and documented and entered into Footprints prior to implementation, or as soon as possible after the change has been implemented depending on the nature of the emergency.

9.1.6.3 The E-RFC is discussed at the earliest CAB meeting and are subject to a Post Implementation Review (PIR).

9.1.7 Notice Requirement:

9.1.7.1 All Normal Change RFCs require a minimum two-week notice to impacted stakeholders, unless the stakeholders have agreed to waive this requirement.

9.1.8 Deadline for CAB; Lead time:

9.1.8.1 All Normal RFCs must be submitted via Footprints and be fully complete no later than noontime on Wednesday for consideration at the CAB meeting to be reviewed by the CAB that week, subject to the following lead times:

9.1.8.1.1 Any Normal RFCs with an SIA impact level of No to Low must provide at least one week of advanced notice to CAB, depending on the urgency of the RFC.

9.1.8.1.2 Any Normal RFCs with an SIA impact level of Moderate to High must provide at least 3 weeks advanced notice to the CAB, with the amount of lead time dependent upon the complexity of the RFC.

9.2 CAB Agenda- Prioritized Based on RFC Type (Preparation for CAB):

9.2.1 The CAB Facilitator prepares the weekly CAB agenda for distribution to CAB members, including all RFCs that are open and complete and have met the RFC CAB submission and lead time requirements;

9.2.2 The CAB facilitator prioritizes RFCs on the CAB agenda based on the RFC's SIA impact level (no, low, moderate, high) as listed in Footprints. Any emergency RFCs that were authorized by the E-CAB during the previous week, as well as any unsuccessful or failed RFCs, are added to the agenda for PIR.

9.2.3 The CAB Facilitator communicates with the CAB Co-Chairs, Chief Information Security Officer and information security team representatives to review any RFCs with a SIA impact level of High to review the timeline and implementation steps necessary prior to CAB.

9.3 Assessment and Evaluation of the RFC (in CAB):

- 9.3.1 During CAB, the CAB Facilitator adds his/her name to the RFC documentation in the change record (for all RFCs during their leadership term).
- 9.3.2 The CAB meeting is conducted in accordance with the CAB agenda.
- 9.3.1 CAB members:
 - 9.3.1.1 Advise on the assessment, prioritization and scheduling of RFCs, authorizing their release.
 - 9.3.1.2 Ensure the CR has adhered to OIT policy and RFCs are sufficiently tested and evaluated to determine the impact to system security before implementation to ensure the lowest possible risk to services.
 - 9.3.1.3 Use the SIA as the framework for the evaluation of the RFC, which allows for the assessment of the potential impact of changes to the information system in a repeatable manner that ensures balances security, business and technical viewpoints.
 - 9.3.1.4 Determine by consensus to authorize, defer or reject the RFC.
 - 9.3.1.5 Perform any necessary PIRs on expedited or emergency RFCs authorized during the previous week, as well as any unsuccessful or failed RFCs.
- 9.3.2 Unapproved changes to OIT managed information systems are prohibited.

9.4 Implementation and Validation of the RFC (Post-CAB):

- 9.4.1 The CR (or CO) implements the RFC and verifies that approved changes are implemented correctly, operating as intended, and meeting security requirements.
- 9.4.2 The CR includes changes to applicable/related configuration parameters as well as updates system documentation to reflect the changes.
- 9.4.3 For successful RFCs:
 - 9.4.3.1 The CR confirms the change was deployed without issues and closes out the change request.
- 9.4.4 For failed RFCs:

Change Management Policy and Procedures

- 9.4.4.1 In the event the RFC is unsuccessful, fails, or is partially implemented and cannot be completed, the change may need to be backed out. In this case, the approved Backout Plan is implemented.
- 9.4.4.2 A PIR is conducted at the direction of the CAB Co-Chairs to determine how the change was handled throughout its lifecycle and identify opportunities to improve implementation of similar RFCs in the future.
- 9.4.5 The CAB audits and reviews activities related to changes to the information system at least biannually.

10.0 Document History and Distribution:

Version	Revision Log	Date
<i>Version 1.0</i>	<i>Initial Publication</i>	<i>July 18, 2019</i>

Approved by: Chief Information Officer

Legal Citation: [Title 5, Chapter 163: Office of Information Technology](#)⁴.

Distribution

This document will be distributed to all appropriate State of Maine personnel and will be posted on the OIT website (<https://www.maine.gov/oit/policies-standards>).

11.0 Document Review:

This document is to be reviewed annually and when substantive changes are made to policies, procedures or other authoritative regulations affecting this document.

12.0 Records Management:

State of Maine security policies, plans, and procedures will be retained and then destroyed in accordance with the [Maine State Archivist Records Management General Schedule](#)⁵.

13.0 Public Records Exceptions:

Under the Maine Freedom of Access Act, certain public record exceptions may limit disclosure of agency records related to information technology infrastructure and

⁴ <http://legislature.maine.gov/statutes/5/title5ch163sec0.html>

⁵ <http://www.maine.gov/sos/arc/records/state/generalschedules.html>

Change Management Policy and Procedures

systems, as well as security plans, procedures or risk assessments. Information contained in these records may be disclosed to the Legislature or, in the case of a political or administrative subdivision, to municipal officials or board members under conditions that protect the information from further disclosure. Any aggrieved person seeking relief for an alleged violation of the FOAA may bring suit in any Superior Court in the state.

14.0 Definitions:

- 14.1 Backout Plan: A plan that is used in the event a change moved into production causes unwanted results and the system must be returned to a previous functional version to restore business operations.
- 14.2 Change Advisory Board (CAB): The CAB is comprised of representatives from all areas of OIT, who are considered standing, regular members of the CAB, as well as other individuals who may participate on an ad hoc basis, depending on the nature of the RFC being reviewed: CAB Co-Chairs; CAB Leaders; User managers and groups; Applications representatives; Information security representative; and Technical experts.
- 14.3 Change Requestor (CR): The CR is the individual that creates the RFC in Footprints. Unless the CR assigns the RFC to a different “*assigned to*” individual (see Change Owner), the CR owns the change request from creation to closure. The CR must complete all the required information in Footprints for Normal RFCs (Appendix D).
- 14.4 Change management (ChM): The process that controls the life cycle of all changes to the infrastructure or any aspect of services in a controlled manner, enabling beneficial changes to be made with minimum disruption to IT services. It applies to any change that might affect OIT systems, infrastructure and services in the IT environment, including changes to all architectures, applications, software, tools and documentation.
- 14.5 Change Owner (CO): For any RFC assigned, this role is deemed the owner of the RFC from creation to closure. The CO is assigned to this role by the CR and is responsible for owning the change request from creation to closure.
- 14.6 Change request (RFC): A formal request for change to any component of an IT infrastructure or to any aspect of an IT service which is made to the OIT production environment. The formal change request is logged in OIT’s Footprints system, which includes all the information required in Appendix D.
- 14.7 E-CAB: A group dynamically convened at the call of the CAB Co-Chairs, on an ad hoc basis, to prevent service interruption or restore service during an outage, as the nature of the emergency requires. Individuals that may be called to serve on the E-CAB include subject matter experts, information security

Change Management Policy and Procedures

representatives, team leaders and others within OIT with relevant ChM expertise.

- 14.8 Emergency change: A request for Change that must be implemented as soon as possible to correct, or prevent, a high priority incident, or that must be introduced as soon as possible due to likely negative service impacts.
- 14.9 Exempt change: Certain changes that are not included under ChM policy, as identified by the CAB Co-Chairs, including: database content updates, creating/removing/updating accounts, and creation or deletion of user files are examples of exempt changes.
- 14.10 Standard Change Catalog: The collection of pre-approved Standard Changes that have been authorized by the CAB Co-Chairs and are subject to a streamlined ChM process outside of CAB.
- 14.11 Standard Change Template: An approved form for submission of requests for routinely and frequently performed, low impact/risk RFCs determined to be Standard Changes by the CAB Co-Chairs and subject to a streamlined process outside of the CAB.
- 14.12 Security Impact Analysis (SIA): The SIA is based on three security categories for both information and information systems based on methods described in Federal Information Processing Standards (FIPS) Publication 199, *"Standards for Security Categorization of Federal Information and Information Systems"* and NIST Special Publication 800-53, *"Security and Privacy Controls for Federal Information Systems and Organizations."* The categories are based on the potential impact on an agency should certain events occur that jeopardize the information/information systems necessary to accomplish its mission, protect its assets, fulfill its legal responsibilities, maintain its day-to-day functions and protect individuals. The SIA is conducted to determine the extent to which changes to the information system will affect the security state of the system.

STANDARD CHANGE CLASSIFICATION TEMPLATE

Name of Proposed Standard Change Classification (Type):	Date Requested:
Requested by (Section Manager and above):	Reviewed by (Division Director or Director's Designee):
QUESTIONS	RESPONSE
Provide a brief description of the change and identify why it should be categorized as a Standard Change for inclusion in the Standard change catalog.	
Does this type of change satisfy the criteria for Standard Changes identified in the Checklist?	YES _____ NO _____
How frequently is this type of change made?	
Are there documented procedures describing the steps necessary to complete the change?	YES _____ NO _____
Is there a viable back-out procedure that can be documented in the RFC?	YES _____ NO _____
Is the change considered low risk/ impact to the OIT production environment, security, services, infrastructure, customers/users, and business processes?	YES _____ NO _____
Has this type of change ever failed before? If so, what happened? Did you have to back it out?	

Approved YES _____ NO _____ **CAB Co-Chairs' Signatures:** _____ / _____

Date of decision: _____

STANDARD CHANGE CHECKLIST

A Standard Change is considered a subset of Normal Change RFCs (low risk, low impact) that also:

1. Has a proven history of success and predictable outcomes;
2. Is scriptable (step by step work procedures), frequently implemented and subject to successfully repeatable implementation steps;
3. Has been proven to be a low-risk and low-impact change to the OIT production environment, security, services, infrastructure, customers/users, and business processes;
4. Has documented build procedures;
5. Install plan (time to install, steps required) is documented;
6. Applicable customer, user, and internal notifications/communications are built into the workflow;
7. Procedural documentation for execution of each Standard Change request is maintained; and
8. Back-out or Recover procedure is documented and tested.

Maine Office of Information Technology

Standard Change Classification Process and Checklist

This document establishes the process and checklist for classification of Standard changes to be used in accordance with the standards set forth in the Change Management Policy and Procedures document.

STANDARD CHANGE CLASSIFICATION PROCESS

1.0 STANDARD CHANGE CLASSIFICATION PROCESS

This document describes the process for classifying changes that qualify as Standard changes within the change management process.

1.1 A Standard change is defined as a repeatable change that has been pre-authorized by the CAB Co-Chairs by means of a documented procedure that controls risk and has predictable outcomes. Standard changes are considered pre-approved and follow a shorter lifecycle omitting the CAB authorization steps.

- 1.1.1 Any request to have an RFC classified and preauthorized as a Standard change template must be submitted through using the OIT Standard Change Classification Template (Appendix A), and approved by the respective Division Director⁶. All requests must be finally approved by the CAB Co-Chairs.
- 1.1.2 All submissions must meet the Checklist requirements in section 2 to the satisfaction and approval of the CAB Co-Chairs.
- 1.1.3 Once a change is pre-authorized as a Standard Change by the CAB Co-chairs, they are stored in a catalog of templates. Change requestors will be able to select from the existing Standard change catalog the appropriate option that matches their standard change RFC. The selection must be signed off on by a separate individual, the Division Director or Director's designee, and that individual is listed in Footprints.
- 1.1.4 All Standard change RFCs are tracked in Footprints and controlled by a pre-approved standardized process that occurs outside of the CAB.

2.0 STANDARD CHANGE: CLASSIFICATION CHECKLIST

2.1 The following checklist must be used for submission of any RFC for classification as a Standard change template by the CAB Co-Chairs and entrance into the Standard change catalog.

- 2.1.1 The change is a subset of a Normal RFC (low risk, low impact) that is:
 - 2.1.1.1 Frequently implemented;
 - 2.1.1.2 Subject to successfully repeatable implementation steps and

⁶ Individuals authorized to submit requests to the CAB Co-Chairs for classification of Standard changes include: Division Directors, or the Division Director's designee (typically the Deputy Division Directors). The completion of the Standard Change List Submission Template (Appendix B) may only be completed by Section Managers and above. To ensure separation of duties, the Submission Template must be reviewed by a different individual than the one who requested the submission.

- standard documented procedure;
- 2.1.1.3 Has a proven history of success and predictable outcomes;
- 2.1.1.4 Is considered a low-risk and low-impact change to the OIT production environment, security, services, infrastructure, customers/users, and business processes; and
- 2.1.1.5 Notification of impacted parties is built into the workflow.

3.0 STANDARD CHANGE CATALOG LIST; ANNUAL REVIEW

3.1 Standard change catalog; annual review

- 3.1.1 The standard change catalog must be reviewed annually, or earlier if required, by the CAB Co-Chairs to ensure they remain valid.

**Maine Office of Information Technology
Security Impact Analysis**

This document establishes the Security Impact Analysis to be used in accordance with the standards set forth in the Change Management Policy and Procedures document.

SECURITY IMPACT ANALYSIS (SIA)

Table 2: Security Impact Analysis

POTENTIAL IMPACT				
Security Objective	NO	LOW	MODERATE	HIGH
Confidentiality Preserving authorized restrictions on information access and disclosure, including means for protecting personal privacy and proprietary information. [44 U.S.C., SEC. 3542]	No adverse affect	The unauthorized disclosure of information could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized disclosure of information could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized disclosure of information could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.
Integrity Guarding against improper information modification or destruction, and includes ensuring information non-repudiation and authenticity. [44 U.S.C., SEC. 3542]	No adverse affect.	The unauthorized modification or destruction of information could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized modification or destruction of information could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.	The unauthorized modification or destruction of information could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.
Availability Ensuring timely and reliable access to and use of information. [44 U.S.C., SEC. 3542]	No adverse affect.	The disruption of access to or use of information or an information system could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.	The disruption of access to or use of information or an information system could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.	The disruption of access to or use of information or an information system could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.

The SIA establishes security categories for information systems described in FIPS Publication 199⁷. It provides the framework for determining an appropriate set of security controls within the ChM process required to protect information and information systems. The security categories are based on the potential impact on an agency should certain events occur which jeopardize the information and information systems needed by OIT to accomplish its mission, protect its assets, fulfill its legal responsibilities, maintain its day-to-day functions, and protect individuals. Security categories are to be used in conjunction with vulnerability and threat information in assessing the risk to an agency. System information must be protected at a level commensurate with the most critical or sensitive user information being processed by the system to ensure confidentiality, integrity and availability.

The application of the SIA must take place within the context of OIT's organization and the overall State interest and are provided as guidance ONLY:

The potential impact is **NO Impact** if —

– When the unauthorized disclosure of information, the unauthorized modification or destruction of information, or the disruption of access to or use of information or an information system could be expected to have a **very limited or no** adverse effect on organizational operations, organizational assets, or individuals that may, for example (i) little or no degradation in mission capability or effectiveness; (ii) result in little or no damage to organizational assets; (iii) result in very minor or no financial loss; or (iv) result in no harm to individuals greater than the potential for inconvenience caused by, for example, missing or misrepresented information.

Applying the Standard: For example, NO impact systems may not store, communicate, or process any Privacy Act or confidential information.

The potential impact is **LOW** if—

– The loss of confidentiality, integrity, or availability could be expected to have a **limited** adverse effect on organizational operations, organizational assets, or individuals.

Clarification: A limited adverse effect means that, for example, the loss of confidentiality, integrity, or availability might: (i) cause a degradation in mission capability to an extent and duration that the organization is able to perform its primary functions, but the effectiveness of the functions is noticeably reduced; (ii) result in minor damage to organizational assets; (iii) result in minor financial loss; or (iv) result in minor harm to individuals.

Applying the Standard: For example, **LOW** impact systems store data that is open to public inspection or readily available through public sources. LOW impact systems may not store, communicate, or process any Privacy Act or confidential information.

The potential impact is **MODERATE** if—

– The loss of confidentiality, integrity, or availability could be expected to have a **serious** adverse effect on organizational operations, organizational assets, or individuals.

Clarification: A serious adverse effect means that, for example, the loss of confidentiality, integrity, or availability might: (i) cause a significant degradation in mission capability to an extent and duration that the agency is able to perform its primary functions, but the effectiveness of the functions is significantly reduced; (ii) result in significant damage to agency assets; (iii) result in significant financial loss; or (iv)

⁷ (<http://csrc.nist.gov/publications/fips/fips199/FIPS-PUB-199-final.pdf>)

result in significant harm to individuals that does not involve loss of life or serious life threatening injuries.

Applying the Standard: Is the information system affected primarily and routinely used to store, communicate, or process any of the following types of information: Collections & Receivables; Contingency Planning; Continuity of Operations; Cost Accounting/Performance Measurement; Energy Resource Management; Energy Supply; Environmental Remediation; Information Management; Information Security; Lifecycle/Change Management; Payments; Percentage Infrastructure Maintenance; Reporting Information; Research & Development; Scientific & Technical Research & Innovation; Security Management; System & Network Monitoring; System Development; System Maintenance.

- *Does aggregation of information on this system reveal sensitive patterns and plans, or facilitate access to sensitive or critical systems?*
- *Would unauthorized modification or destruction of information affecting external communications (e.g., web pages, electronic mail) adversely affect operations or seriously damage mission function and/or public confidence?*
- *Would either physical or logical destruction of the system result in very large expenditures to restore the system and/or require a long period of time for recovery?*
- *Does the mission served by the system, or the information that the system processes, affect the security of critical infrastructures and key resources?*
- *Does the system store, communicate, or process any privacy act information or information protected under state or federal law (such as: Personally Identifiable Information, Personal Health Information, Federal or State tax information, Criminal Justice Information from the FBI, PCI data, information from the Social Security Administration, Centers for Medicare and Medicaid Services)?*
- *Does the system store, communicate, or process any trade secrets information?*
- *Are there any other extenuating circumstances that may require the SIA to be elevated to the next higher level (such as but not limited to: system provides critical process flow or security capability, public visibility of the system, the sheer number of other systems reliant on its operation, or the overall cost of system replacement)?*

If **YES**, then potential impact is MODERATE. If **NO**, then potential impact is **LOW**.

The potential impact is **HIGH** if—

– The loss of confidentiality, integrity, or availability could be expected to have a **severe or catastrophic** adverse effect on agency operations, organizational assets, or individuals.

Clarification: A severe or catastrophic adverse effect means that, for example, the loss of confidentiality, integrity, or availability might: (i) cause a severe degradation in or loss of mission capability to an extent and duration that the agency is not able to perform one or more of its primary functions; (ii) result in major damage to agency assets; (iii) result in major financial loss; or (iv) result in severe or catastrophic harm to individuals involving loss of life or serious life threatening injuries.

Applying the standard: Is the information system affected primarily and routinely used to store, communicate, or process any of the following types of information: Emergency Response; or Key Asset & Critical Infrastructure Protection, or confidential information that has the potential to cause great harm or damage to individuals or institutions if breached or disclosed to unauthorized users?

If **YES**, then potential impact is **HIGH**.

Normal Change RFCs: Required Information in Footprints	
NORMAL CHANGE REQUEST	REQUIRED INFORMATION
	<ul style="list-style-type: none"> Select the appropriate change type from the dropdown list.
	<ul style="list-style-type: none"> Indicate the business need and justification for the change.
	<ul style="list-style-type: none"> Indicate the technical validity of change.
	<ul style="list-style-type: none"> Complete the Security Impact Analysis (Appendix C).
	<ul style="list-style-type: none"> Indicate if communication has been made to impacted stakeholders regarding the goals and objectives of the RFC.
	<ul style="list-style-type: none"> Perform a conflict check and indicate its completion (determine if the change is proposed to be scheduled at the same time as other changes; determine possible impacts of any scheduling conflicts on all affected stakeholders). This may include consulting the ChM Calendar and any applicable change windows for planning the implementation dates.
	<ul style="list-style-type: none"> Ensure that the RFC does not interfere with the achievement of service level commitments to agency partners and customers.
	<ul style="list-style-type: none"> Indicate the appropriate lead time notice has been provided to all impacted stakeholders, unless the impacted agencies agree to waive this requirement.
	<ul style="list-style-type: none"> Indicate when approval of the implementation dates has been received from all impacted stakeholders.
	<ul style="list-style-type: none"> Identify if additional assistance from Account Managers, as well as the Application Development staff, has been leveraged, when necessary, to assist with Agency notification - (CR/CO retains ultimate responsibility for obtaining and coordinating the approval of the RFC from all stakeholders).
	<ul style="list-style-type: none"> Identify if any cross-functional (departmental/agency) issues are resolved/unresolved.
	<ul style="list-style-type: none"> Indicate if Infrastructure Team resources are required for implementation of the change and if they have been contacted.
	<ul style="list-style-type: none"> Properly complete all required RFC information in Footprints in a timely manner.